

June 16, 2011

CURRICULUM VITAE

Georg Norén, M.D., Ph.D.

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EDUCATION

Medical School and Internship:

Karolinska Institute, Stockholm, Sweden
January 15, 1963-June 23, 1971

Candidate of Medicine (anatomy, histology, organic and medical chemistry, physiology) December 22, 1964 (essentially corresponding to undergraduate level)

Licentiate of Medicine (M.D.) June 23, 1971

Other Advanced Degrees:

Karolinska Institute
1974 - 1982 work on Ph.D. thesis, which was publicly defended for the degree of

Doctor of Medicine (Ph.D.) May 13, 1982

Warren Alpert Medical School of Brown University

Master of Arts (Ad Eundem) May 26, 1997

POSTGRADUATE TRAINING

Residency: Karolinska Hospital/Institute
Department of Neurosurgery
October 2, 1972 - February 5, 1979
Training included 9 months of general surgery, 3 months of pediatric surgery and 6 months of anesthesia and intensive care. It also included 6 courses on selected topics organized by the Swedish National Board of

Health and Welfare and EANS (European Association of Neurosurgical Societies)

POSTGRADUATE HONORS & AWARDS

1. The Mahaley Clinical Research Award, AANS/CNS, Boston, MA, April 28, 1993
2. Pioneers in Radiosurgery Award, 13th International Meeting of the Leksell Gamma Knife Society, Seoul, Republic of South Korea, May 24, 2006

MILITARY SERVICE

Drafted in the Swedish Army. Service in periods of up to 3 months for a total of 1½ years during the period 1962 – 1978. Regular education, training and service for MDs in the Army. Final rank: Second Lieutenant.

PROFESSIONAL LICENSES & BOARD CERTIFICATIONS

Swedish Medical License (issued by Swedish National Board of Health and Welfare), June 28, 1971

ECFMG January 25, 1978 (Certificate No. 296-377-5)

Certificate as specialist in Neurosurgery (issued by Swedish National Board of Health and Welfare), February 5, 1979

Rhode Island Medical License, October 13, 1994

Massachusetts Medical License, October 27, 1999 (temporary)

ACADEMIC APPOINTMENTS

Karolinska Institute

Department of Neurosurgery

Asst./Assoc. Professor (“biträdande överläkare”) since May 1, 1988

Warren Alpert Medical School of Brown University

Department of Clinical Neurosciences (Neurosurgery)

Associate Professor, March 1, 1995

Professor, July 1, 2002, reappointment July 1, 2007

Tufts University School of Medicine

Department of Neurosurgery

Associate Clinical Professor, July 1, 1999 – October 13, 2002

HOSPITAL APPOINTMENTS

Karolinska Hospital

Junior and Senior Staff, Department of Neurosurgery, February 5, 1979, to October 16, 1994.

Rhode Island Hospital

Medical Director, Rhode Island Hospital Gamma Knife Center,
Providence RI, October 17, 1994, to present.

VISITING PROFESSOR

Division of Neurosurgery, University of Manitoba, Winnipeg,
February 11, 2011.

OTHER APPOINTMENTS

District Medical Officer, Skinnskatteberg, Sweden, 14 months,
1971-1972
Member, Editorial Advisory Board, Journal of Neurovascular Disease
1996-1999
Member, Editorial Board, Journal of Radiosurgery 1997- 2001
Promotions Committee, Dept. of Neurosurgery and Neurology at Brown,
2002-present
Reviewer, Neurosurgery (official journal of the Congress of Neurological
Surgeons), 2001 - present

MEMBERSHIP IN SOCIETIES

Swedish Medical Association
Swedish Neurosurgical Society (Board Member until 12/93)
Scandinavian Neurosurgical Society
European Society for Functional and Stereotactic Neurosurgery
World Society for Stereotactic and Functional Neurosurgery
International Stereotactic Radiosurgery Society
American Society for Stereotactic and Functional Neurosurgery
American Medical Association (member since 9/5/96)
New England Neurosurgical Society
Congress of Neurological Surgeons (member since 6/25/99)

HOBBIES AND INTERESTS

Player of the oboe, oboe d'amore, English horn and baroque oboe.
Member of Fall River Symphony Orchestra and Ocean State Summer
Pops Orchestra.
Member of the Swedish Railway Club and the Swedish Tramway Society.

PUBLICATIONS

(Peer-reviewed)

1. Grepe A, Greitz T, Norén G: Computer cisternography of extracerebral tumours using lumbar injection of water-soluble contrast medium. *Acta Radiologica Suppl No 346*:51-62, 1975.
2. Norén G, Backlund EO, Grepe A: Stereotaktisk strålkirurgisk behandling av acusticusneurinom. *Svensk Förening för Medicinsk radiologi, Förhandlingar nr 6*:19-20, 1976. (Stereotactic radiosurgery in the treatment of acoustic neurinomas. *Proceedings from the Swedish Society of Medical Radiology*).
3. Hirsch A, Norén G, Anderson H: Audiologic findings after stereotactic radiosurgery in nine cases of acoustic neurinomas. *Acta Otolaryngologica* 88: 155-160, 1979.
4. Norén G, Collins VP: Stereotactic biopsy in acoustic tumours. *Applied Neurophysiology* 43:189-197, 1980.
5. Anniko M, Norén G: The human acoustic neurinoma in organ culture. I. Methodological aspects. *Acta Otolaryngologica* (Stockholm) 91: 47-53, 1981.
6. Anniko, M, Arndt J, Norén G: The human acoustic neurinoma in organ culture. II. Tissue changes after gamma irradiation. *Acta Otolaryngologica* (Stockholm) 91:223-235, 1981.
7. Norén, G, Arndt J, Hindmarsh T: Stereotactic radiosurgery in cases of acoustic neurinomas. Further experiences. *Neurosurgery* 13, 12-22, 1983.
8. Hatam A, Bergström M, Norén, G: Effects of dexamethasone treatment on acoustic neuromas: Evaluation by computed tomography. *Journal of Computer Assisted Tomography* 9: 857-860, 1985.
9. Ericson K, von Holst H, Mosskin M, Bergström M, Lindqvist M, Norén, G, Eriksson L: Positron emission tomography of cavernous haemangiomas of the brain. *Acta Radiologica Diagnosis* 27:379-383, 1986.
10. Ericson K, Lindqvist M, Norén, G, Håkanson S: Mobile intraventricular cyst of the third ventricle treated with stereotactic puncture. Report of a case. *Acta Radiologica Diagnosis* 27: 501-503, 1986.
11. Mosskin M, von Holst H, Ericson K, Norén, G: The blood tumour barrier in intracranial tumours studied with X-ray computed tomography and positron emission tomography using 68-Ga-EDTA. *Neuroradiology* 28:259-263, 1986.
12. Mosskin M, Bergström M, Collins VP, Ehrin E, Eriksson L, von Holst H, Norén, G: Positron emission tomography with 11-C-methionine of intracranial tumours compared with histology of multiple biopsies. *Acta Radiologica suppl* 369, pp 157-160, 1986.

13. Bergström M, Mosskin M, Ericson K, Ehrin E, Thorell JO, von Holst H, Norén G, Persson A, Halldin C, Stone-Elander S, Collins VP: Peripheral benzodiazepine binding sites in human gliomas evaluated with positron emission tomography. *Acta Radiologica suppl* 369, pp 409-411, 1986.
14. Bergström M, Ericson K, Hagenfeldt L, Mosskin M, von Holst H, Norén G, Eriksson L, Ehrin E, Johnström P: PET study of methionine accumulation in glioma and normal brain tissue: Competition with branched chain amino acids. *Journal of Computer Assisted Tomography* 11:208-213, 1987.
15. Mindus P, Bergström M, Levander SE, Norén G, Hindmarsh T, Thuomas KA: Magnetic resonance images related to clinical outcome after psychosurgical intervention in severe anxiety disorder. *Journal of Neurology, Neurosurgery and Psychiatry* 50: 1288-1293, 1987.
16. Mosskin M, von Holst H, Bergström M, Collins VP, Eriksson L, Johnström P, Norén G: Positron emission tomography with 11-C-methionine and computed tomography of intracranial tumours compared with histopathologic examination of multiple biopsies. *Acta Radiologica* 28: 673-681, 1987.
17. Hirsch A, Norén G: Audiological findings after stereotactic radiosurgery in acoustic neurinomas. *Acta Otolaryngologica* (Stockholm) 106: 244-251, 1988.
18. Thorén M, Sääf M, Degerblad M, Rähn T, Norén G, Bergstrand CG, Tallstedt L, Backlund EO: Stereotactic irradiation for pituitary disease. *Hormone Research* 30:101-103, 1988.
19. Backlund EO, Axelsson B, Bergstrand CG, Eriksson AL, Norén G, Ribbesjö E, Rähn T, Schnell PO, Tallstedt L, Sääf M, Thorén M: Treatment of craniopharyngeomas -- the stereotactic approach in a ten to twenty-three years' perspective. I. Surgical, radiological and ophthalmological aspects. *Acta Neurochir* 99:11-19, 1989.
20. Sääf M, Thorén M, Bergstrand CG, Norén G, Rähn T, Tallstedt L, Backlund EO: Treatment of craniopharyngeomas -- the stereotactic approach in a ten to twenty-three years perspective. II. Psychosocial situation and pituitary function. *Acta Neurochir* 99:97-103, 1989.
21. Frenckner B, Ehrén H, Palmér K, Norén G: Pneumocephalus caused by a nasopharyngeal oxygen catheter. *Critical Care Medicine* 18: 1287-1288, 1990.
22. Yamamoto M, Norén G: Stereotactic radiosurgery in acoustic neurinomas. *Neurological Surgery* (Tokyo) 18: 1101-1106, 1990.
23. Yamamoto M, Jimbo M, Norén G: Radiosurgery in acoustic neurinoma: Tumour volume and dose-planning. *Progress in CT* 12: 617-622, 1990.

24. Carlstedt T, Hultgren T, Norén G: Behandling av plexus brachialisskador med mikrokirurgisk teknik numera möjlig. *Läkartidningen* 88: 1504-1509, 1991. (Microsurgery in the treatment of brachial plexus injuries. Journal of the Swedish Medical Association).
25. Kihlström L, Karlsson B, Lindquist C, Norén G, Rahn T: Gamma Knife surgery for cerebral metastases. *Advances in Stereotactic and Functional Neurosurgery* 9 (ed E Hitchcock), Springer Verlag, Wien, *Acta Neurochir* 52(suppl): 87-89, 1991.
26. Norén G, Greitz D, Hirsch A, Lax I: Gamma Knife surgery in acoustic tumours. *Acta Neurochir* 58(suppl): 104-107, 1993.
27. Carlstedt T, Norén G: Repair of ruptured spinal nerve roots in a brachial plexus lesion. *Journal of Neurosurgery* 82:661-663, 1995.
28. Carlstedt T, Grane P, Hallin R, Norén G: Functional return due to spinal cord implantation of avulsed spinal nerve roots. *The Lancet*. 346:1323-1325, 1995.
29. Friehs GM, Norén G, Ohye C, Duma CM, Marks R, Plombon J, Young RF: Lesion size following Gamma Knife treatment for functional disorders. *Stereotactic and Functional Neurosurgery* 66(suppl 1):320-328, 1996.
30. Norén G: Long-term complications following Gamma Knife radiosurgery of vestibular schwannomas. *Stereotactic and Functional Neurosurgery* 70(S1):65-73, 1998.
31. Pollock BE, Lunsford LD, Norén G: Vestibular schwannoma management in the next century: A radiosurgical perspective. *Neurosurgery* 43:475-483, 1998.
32. Kondziolka D, Flickinger J, Perez B and the Gamma Knife Meningioma Study Group (Norén G et al.): Judicious resection and/or radiosurgery for parasagittal meningiomas: Outcomes from a multicenter review. *Neurosurgery* 43:405-414, 1998.
33. Friehs GM, Legat , Zheng Z, Pendl G, Norén G: Gamma knife treatment for metastases from malignant melanoma. *Neurosurgical Focus*, June, 1998.
34. Norén G, Jackson IMD, Chougule P, Zheng Z, Epstein MH: Gamma Knife radiosurgery for secreting pituitary tumors. *Kitakanto Med.J.* (S1):59-62, 1998.
35. Jackson IMD, Norén G: Role of gamma knife radiosurgery in acromegaly. *Pituitary* 2:71-77, 1999.
36. Jackson IMD, Norén G: Role of gamma knife therapy in the management of pituitary tumors. *Endocrinology and Metabolism Clinics of North America*, 28:133-142, 1999.

37. Carlstedt T, Anand P, Hallin R, Misra PV, Norén G, Seferlis T: Spinal nerve root repair and reimplantation of avulsed ventral roots into spinal cord after brachial plexus injury. *J Neurosurg (Spine 2)* 93:237-247, 2000
38. Zheng Z, Shearer D, Norén G, Chougule P, Friehs G: Comparison of geometric distortion in digital angiography with and without a correction program. *J Neurosurg (Suppl 3)* 93:223-227, 2000.
39. Cobery ST, Norén G, Friehs GM, Chougule P, Zheng, Z, Epstein MH, Taylor W: Gamma knife surgery for treatment of central neurocytomas. Report of four cases. *J Neurosurg* 94:327-330, 2001.
40. Shamisa A, Bance M, Nag S, Tator C, Wong S, Norén G, Guha A: Glioblastoma multiforme occurring in a patient treated with gamma knife surgery. Case report and review of the literature. *J Neurosurg* 94:816-821, 2001
41. Tung GA, Norén G, Rogg JM, Jackson IMD: MR imaging of pituitary adenomas after gamma knife stereotactic radiosurgery. *AJR* 177:919-924, 2001.
42. Bradford CD, Morabito B, Shearer DR, Norén G, Chougule P: Off-target patient dose during couch transit for the Leksell gamma knife. *Int J Radiat Oncol Biol Phys* 54:1134-1139, 2002.
43. Litvack ZN, Norén G, Chougule PB, and Zheng Z: Preservation of functional hearing after gamma knife surgery for vestibular schwannoma. *Neurosurg Focus* 14 (5): Article 3, 2003.
44. Greenberg BD, Price LH, Rauch SL, Friehs G, Norén G, Malone D, et al. Neurosurgery for intractable obsessive-compulsive disorder and depression: critical issues. *Neurosurg Clin N Am.* 14(2):199-212, 2003.
45. Zerris VA, Norén G, Shucart WA, Rogg J, Friehs GM: Targeting the cranial nerve: microradiosurgery for trigeminal neuralgia with CISS and 3D-Flash MR imaging sequences. *J Neurosurg (Suppl)* 102:107-110, 2005.
46. Rogg JM, Ahn SH, Tung GA, Reinert SE, Norén G: Prevalence of hydrocephalus in 157 patients with vestibular schwannoma. *Neuroradiology* 47:344-351, 2005.
47. Goldman M, Boxerman JL, Rogg JM, Norén G: Utility of apparent diffusion coefficient in predicting the outcome of Gamma Knife-treated brain metastases prior to changes in tumor volume: a preliminary study. *J Neurosurg (Suppl)* 105:175-182, 2006.
48. Friehs GM, Park, MC, Goldman MA, Zerris VA, Norén G, Sampath P: Stereotactic radiosurgery for functional disorders. *Neurosurgical Focus* 23(6):E3, 2007.

49. Cecconi JP, Lopes AC, Duran FL, Santos LC, Hoexter MQ, Gentil AF, Canteras MM, Castro CC, Norén G, Greenberg BD, Rauch SL, Busatto GF, Miguel EC: Gamma ventral capsulotomy for treatment of resistant obsessive-compulsive disorder: A structural MRI pilot prospective study. *Neurosci Lett* Sep 27, 2008.
50. Dewan S, Norén G: Retreatment of vestibular schwannomas with Gamma Knife surgery. *J Neurosurg* 109:1044-148, 2008

OTHER PUBLICATIONS

1. Steiner L, Backlund EO, Greitz T, Leksell L, Norén G, Rähn T: Radiosurgery in intracranial arteriovenous malformations. II. A follow-up study. International Congress Series No 433, Neurological Surgery (ed R Carrea), Excerpta Medica, Amsterdam-Oxford, pp 168-180, 1978.
2. Norén G, Leksell L: Stereotactic treatment of acoustic tumours. Stereotactic Cerebral Irradiation (ed G Szikla), Elsevier/North Holland, Amsterdam, pp 241-244, 1979.
3. Arndt J, Backlund EO, Larsson B, Leksell L, Norén G, Rossander K, Rähn T, Sarby B, Steiner L, Wennerstrand J: Stereotactic irradiation of intracranial structures: Physical and biological considerations. Stereotactic Cerebral Irradiation (ed C Szikla), Elsevier/North Holland, Amsterdam, pp 81-82, 1979.
4. Steiner L, Greitz T, Backlund EO, Leksell L, Norén G, Rähn T: Radiosurgery in arteriovenous malformations of the brain. Undue effects. Stereotactic Cerebral Irradiation (ed C Szikla), Elsevier/North Holland, Amsterdam, pp 257-269, 1979.
5. Norén G: Stereotactic radiosurgery in acoustic neurinomas. A new therapeutic approach. Ph.D. dissertation. Stockholm, 1982.
6. Ericson K, Bergström M, Collins VP, Ehrin E, Eriksson L, von Holst H, Mosskin M, Norén G: Positron emission tomography in the diagnosis and assessment of intracranial tumours. Proceedings of the International Symposium on Current and Future Aspects of Cancer Diagnosis with Positron Emission Tomography (PET 85), Tohoku University, Sendai, pp 58-63, 1985.
7. Ericson K, Bergström M, Collins VP, Ehrin E, Eriksson L, von Holst H, Mosskin M, Norén G: Positron emission tomography in neuroradiology--integration of a research tool in clinical routine. Neuroradiology 1985/86 (ed J Valk), Elsevier Science Publishers, Amsterdam, pp 245-251, 1986.
8. Mindus P, Bergström K, Levander S, Norén G, Nyman H, Persson H, Thuomas KA: Clinical results and magnetic resonance findings in anxiety and obsessive-compulsive disorders treated with psychosurgery: a prospective, multidisciplinary assessment. Biological Psychiatry 1985 (eds Shagass C et al.), Elsevier, New York, pp 1370-1372, 1986.
9. Von Holst H, Ericson K, Bergström M, Norén G: Stereotactic positron emission tomography imaging for tumour diagnosis. Modern Stereotactic Neurosurgery (ed LD Lunsford), Martinus Nijhoff Publishing, Boston, 1988, pp 195-205.

10. Norén G, Arndt J, Hindmarsh T, Hirsch A: Stereotactic radiosurgical treatment of acoustic neurinomas. Modern Stereotactic Neurosurgery (ed LD Lunsford), Martinus Nijhoff Publishing, Boston, 1988, pp 481-489.
11. Norén G: Gamma Knife radiosurgery in acoustic neurinomas. Vestibular Diagnosis and Neuro-Otological Management of the Skull Base (ed CT Haid), Demeter Verlag, Gräfelfing, pp 43-47, 1991.
12. Bergenius J, Hessén L, Perols O, Norén G: Vestibular follow-up in acoustic neurinoma patients treated with stereotactic radiosurgery. Vestibular Diagnosis and Neuro-Otological Management of the Skull Base (ed CT Haid), Demeter Verlag, Gräfelfing, pp 48-50, 1991.
13. Norén G, Greitz D, Hirsch A, Lax I: Stereotactic radiosurgery in acoustic neurinoma. Radiosurgery: Baseline and Trends (ed. L Steiner), Raven Press, New York, pp 141-148, 1992.
14. Norén G, Greitz D: The natural history of acoustic neurinomas. Acoustic Neuroma (eds M. Tos, J Thomsen), Kugler Publications, Amsterdam, pp 191-192, 1992.
15. Norén G, Greitz D, Hirsch A, Lax I: Gamma Knife radiosurgery in acoustic neurinomas. Acoustic Neuroma (eds M. Tos, J Thomsen), Kugler Publications, Amsterdam, pp 289-292, 1992.
16. Hirsch A, Norén G: Audiological evaluation after stereotactic radiosurgery in acoustic neurinomas. Acoustic Neuroma (eds M. Tos, J Thomsen), Kugler Publications, Amsterdam, pp 293-295, 1992.
17. Norén G: Management of NF-2. Neurofibromatosis 2 (eds Cohen BH, Korf BR, Pugh JN), the National Neurofibromatosis Foundation, New York, pp 89-92, 1992.
18. Norén G: Gamma Knife Neurosurgery in Acoustic Neurinomas. Skull Base Surgery (ed Samii M). First Int Skull Base Congr, Hannover 1992. Basel, Karger, 1994, pp 877-879.
19. Norén G, Karlbom A, Brantberg K, Lax I, Mosskin M: Gamma Knife radiosurgery for acoustic neurinomas. Neurosurgeons (Tokyo) 14:159-163, 1995.
20. Norén G: Gamma knife stereotactic radiosurgery. Syllabus for the AANS course Stereotactic Radiosurgery Hands-On, chaired by Ph L Gildenberg, MD, PhD, New Orleans, November 17-18, 1995.
21. Norén G: Gamma Knife radiosurgery for acoustic neuromas. The Connection, Acoustic Neuroma Association of Canada, 8:1-3, 1995.
22. Norén G: The Gamma Knife and acoustic tumors. Rhode Island Medicine & Health 79:232-235, 1996.

23. Norén G: Commentary to Guest Editorial by Sekhar LN, Gormley WB, Wright DC: The best treatment for vestibular schwannoma (acoustic neuroma): Microsurgery or radiosurgery? *American J Otolaryngology* 17:685-686, 1996.
24. Norén G: Doctors not immune to acoustic neuroma. Another Perspective, *International Gamma Support Association*, 2:3-5, 1997
25. Norén G: Gamma knife radiosurgery for acoustic neurinoma. *Proceedings, 11th International Congress of Neurological Surgery, Amsterdam 1997. Bologna, Monduzzi, 1997*, pp 107-115.
26. Norén G: Radiosurgery for acoustic tumors (vestibular schwannomas). Expert witness report. Tribunal, *Gamma Knife patients vs. OHIP, Toronto, Ontario, Dec 1-4, 1997*.
27. Norén G: Gamma Knife radiosurgery for acoustic neurinomas. *Textbook of Stereotactic and Functional Neurosurgery* (eds Gildenberg PL, Tasker RR), New York, McGraw-Hill, 1998, chapter 90, pp 835-844.
28. Norén G: Radiosurgery for acoustic neuromas (vestibular schwannomas). Summary of expertise presented at hearing. Tribunal, *Gamma Knife patient vs. Commission des Affaires Sociales, Montréal, Québec, June 10, 1998*.
29. Norén G: Gamma Knife radiosurgery for NF2 acoustic neuromas. Posted on National Neurofibromatosis Foundation web site for scientists and healthcare professionals, January 18, 1999 (www.nf.org/md1.htm).
30. Norén G: Gamma Knife offers another option in NF2 treatment. In *Neurofibromatosis, newsletter of the National Neurofibromatosis Foundation, New York, 1999*, vol 20:2, pp 2 and 4.
31. Norén G, Zheng Z, Rogg JM, Epstein MH: High resolution imaging of CPA tumors. In *Acoustic Neurinoma and Other CPA Tumors* (eds Sanna M, Taibah A, Russo A, Mancini F), Bologna, Monduzzi, 1999, pp 137-142.
32. Jackson IMD, Norén G: Role of gamma knife therapy in the management of pituitary tumors. In *Endocrinology and Metabolism Clinics of North America: Advances in Pituitary Tumor Therapy* (ed Molitch ME), Philadelphia, Saunders, 1999, vol 28:1, pp 133-142.
33. Norén G: Doctors not immune to acoustic neuroma. Another Perspective, *International Radiosurgery Support Association*, 5:3, pp1-5, 2000.
34. Norén G: Comment (Reduced-dose radiosurgery for vestibular schwannomas), *Neurosurgery* 49:1307, 2001.

35. Mindus P, Rasmussen S, Lindquist C, Norén G: Neurosurgical treatment of refractory obsessive-compulsive disorder. In *The Frontal Lobes and Neuropsychiatric Illness* (eds Salloway S, Malloy P, Duffy J), Washington DC, American Psychiatric Publishing, 2001, pp 233-245.
36. Greenberg BD, Price LH, Rauch SL, Friehs G, Norén G, Malone D, Carpenter LL, Rezaei AR, Rasmussen SA: Neurosurgery for intractable obsessive-compulsive disorder and depression: critical issues. *Neurosurgery Clinics of North America* 14:199-212, 2003.
37. Norén G: Gamma Knife radiosurgery of acoustic neurinomas. A historic perspective. *Neurochirurgie* 50:253-256, 2004.

PUBLICATIONS SUBMITTED OR IN PREPARATION

1. Lopes AC, Greenberg BD, Norén G, et al.: Ventral capsular/ventral striatal gamma capsulotomy for treatment of resistant obsessive-compulsive disorder: A pilot prospective study. In manuscript, to be submitted to *Molecular Psychiatry*.
2. Rasmussen SA, Noren G, Marsland R, et al: Efficacy and safety of gamma ventral capsulotomy in intractable obsessive compulsive disorder. In manuscript.
3. Radmer T, Bhatia N, Dewan S, Duff B, Hepel J, Norén G: Gamma knife fractionated radiosurgery for vestibular schwannomas. In manuscript, to be submitted to *J Neurosurg*.

ABSTRACTS

1. Norén G: Positive cisternography in stereotactic brain tumor surgery. The 26th meeting of the Scandinavian Neurosurgical Society, Oslo, Norway, Sept. 5, 1974.
2. Norén G, Backlund EO, Grepe A: Stereotaktisk strålkirurgisk behandling av acusticusneurinom. Annual meeting of Swedish Society of Medical Radiology, March 13, 1976.
3. Norén G: Treatment of acoustic neurinomas by stereotactic radiosurgery. The 28th meeting of the Scandinavian Neurosurgical Society, Copenhagen, Denmark, Sept. 4, 1976.
4. Norén G, Backlund EO: Acusticustumörer. Annual meeting of the Swedish Medical Association, Stockholm, Dec. 4, 1976.
5. Norén G, Backlund EO: Treatment of acoustic tumours by stereotactic radiosurgery. Sixth International Congress of Neurological Surgery, Sao Paulo, Brazil, June 24, 1977.
6. Norén G, Backlund EO, Grepe A, Leksell L: Stereotactic radiosurgical treatment of acoustic neurinomas. The 30th meeting of the Scandinavian Neurosurgical Society, Bergen, Norway, June 16, 1978.
7. Norén G, Anniko M, Arndt J: Acusticusneurinomet in vitro - ett modellsystem för studier av histopatologiska förändringar efter strålkirurgisk behandling. Annual meeting of the Swedish Medical Association, Stockholm, Dec. 1, 1978.
8. Norén G, Collins VP: Stereotactic biopsies in acoustic tumours. American Society for Stereotactic and Functional Neurosurgery, Scientific meeting, Houston, Texas, June 6, 1980.
9. Norén G, Mosskin M, Collins VP: The difference between CT and PET in gliomas as verified by stereotactic biopsy. The 36th meeting of the Scandinavian Neurosurgical Society, Stockholm, Sweden, Sept. 15, 1984.
10. Norén G, Arndt J, Hindmarsh T, Hirsch A: Stereotactic radiosurgery in the management of acoustic tumours. The 38th meeting of the Scandinavian Neurosurgical Society, Reykjavik, Iceland, June 14, 1986.
11. Norén G: Stereotactic radiosurgery in acoustic neurinomas. Radiosurgery: a neurosurgical approach to intracranial lesions. Charlottesville, Virginia, May 3, 1989.
12. Norén G: Gamma Knife radiosurgery in acoustic neurinomas. International conference on Long Term Results and Indications in Otology and Otoneurosurgery. The Politzer Society, Courchevel, France, March 16, 1990.

13. Norén G, Greitz D, Hirsch A, Lax I: Stereotactic radiosurgery with the Leksell Gamma Knife in acoustic neurinomas. The 9th Congress of the European Society for Stereotactic and Functional Neurosurgery, Marbella, Spain, Sept. 20, 1990.
14. Norén G: Gamma Knife radiosurgery in acoustic neuromas. International Stereotactic Radiosurgery Symposium, Pittsburgh, Pennsylvania, June 21, 1991.
15. Norén G: Audiologic evaluation after Gamma Knife radiosurgery in acoustic neuromas. International Stereotactic Radiosurgery Symposium, Pittsburgh, Pennsylvania, June 21, 1991.
16. Norén G: New correlates in gamma knife surgery of acoustic neuromas. 4th Annual Leksell Gamma Knife User Group Meeting, Buenos Aires, Argentina, March 8, 1992.
17. Norén G: Gamma Knife Surgery of Hemangioblastomas. 4th Annual Leksell Gamma Knife User Group Meeting, Buenos Aires, Argentina, March 8, 1992.
18. Norén G, Greitz D, Hirsch A, Lax I: Gamma Knife surgery in acoustic tumours. 10th congress of the European Society for Stereotactic and Functional Neurosurgery, Stockholm Sweden, Sept. 4, 1992.
19. Norén G: Gamma Knife radiosurgery in the treatment of acoustic neurinomas. International Symposium on Stereotactic Neuro-Radio-Surgery, Vienna, Austria, October 14, 1992.
20. Norén G, Brantberg K, Hirsch A, Lax I, Mosskin M: Long-term follow-up results after Gamma Knife radiosurgery of acoustic neuromas (vestibular schwannomas). Plenary session presentation at the annual meeting of The American Association of Neurological Surgeons, Boston, Massachusetts, April 27, 1993. Received the Mahaley Clinical Research Award for best clinical CNS tumor contribution.
21. Norén G, Lax I: Dosimetry in Gamma Knife radiosurgery of vestibular schwannomas. 1st Congress of the International Stereotactic Radiosurgery Society, Stockholm, Sweden, June 18, 1993.
22. Norén G, Brantberg K, Hirsch A, Mosskin M: Long-term efficacy of Gamma Knife radiosurgery of vestibular schwannomas. 1st Congress of the International Stereotactic Radiosurgery Society, Stockholm, Sweden, June 18, 1993.
23. Norén G, Bergenius J, Mosskin M: Long term results of Gamma Knife surgery in vestibular schwannomas. Xth International Congress of Neurological Surgery, Acapulco, Mexico, October 20, 1993.
24. Norén G, Karlbom A, Brantberg K, Lax I, Mosskin M: Gamma Knife radiosurgery in unilateral acoustic neurinoma: Long term results. 6th International meeting of the Leksell Gamma Knife Society, Kyoto, Japan, May 10, 1994.

25. Norén G, Karlbom A, Brantberg K, Lax I, Mosskin M: Gamma Knife radiosurgery in NF2 acoustic neurinoma: Long term results. 6th International meeting of the Leksell Gamma Knife Society, Kyoto, Japan, May 10 , 1994.
26. Norén G, Brantberg K, Karlbom A, Lax I, Mosskin M: Hearing preservation in unilateral acoustic neurinoma gamma knife radiosurgery. Quadrennial Meeting of the American Society for Stereotactic and Functional Neurosurgery, Marina del Rey, California, March 10, 1995
27. Norén G, Karlbom A, Saris S, Chougule P, Mosskin M, Lax I, Zheng Z, Epstein M: The response of acoustic tumors to gamma knife radiosurgery as correlated to radiation dose and tumor volume. 2nd Congress of International Stereotactic Radiosurgery Society, Boston, Massachusetts, June 16, 1995
28. Norén G: Gamma knife radiosurgery of acoustic tumors. Fall meeting of the New England Neurosurgical Society, Newport, Rhode Island, September 29, 1995.
29. Khan AM, Norén G, Epstein MH: Functional hearing preservation following Gamma Knife radiosurgery for vestibular schwannomas. Oral presentation, 48th Annual Meeting of the CNS, Seattle, WA, October 6, 1998.
30. Norén G, Rasmussen S, Mindus P, Lindquist C, Chougule PB, Zheng Z, Epstein M: Gamma capsulotomy for intractable OCD. Oral presentation, 9th International Meeting of the Leksell Gamma Knife Society, Hong Kong, November 10, 1998.
31. Norén G, Epstein MH, Jackson IMD, Zheng Z, Chougule PB, Tung GA: Gamma Knife radiosurgery for pituitary tumors. Oral presentation, 9th International Meeting of the Leksell Gamma Knife Society, Hong Kong, November 11, 1998.
32. Kanski JW, DiPetrillo T, Norén G, Chougule P, Zheng Z, Ruthazer R, Wazer DE: Implications of Gamma Knife dose rate response to treatment of brain metastases. Submitted for presentation at ASTRO 1999.
33. Khan AM, Norén G, Epstein MH: Functional hearing preservation following gamma knife radiosurgery for vestibular schwannomas. Oral presentation, 3rd International Conference on Acoustic Neurinoma and Other CPA Tumors, Rome, Italy, June 15, 1999.
34. Norén G, Rogg JM, Zheng Z, Epstein MH: High resolution imaging of CPA tumors. Oral presentation, 3rd International Conference on Acoustic Neurinoma and Other CPA Tumors, Rome, Italy, June 15, 1999.
35. Tung GA, Jackson IMD, Norén G, Epstein MH, Rogg JM: MR imaging of pituitary adenomas treated by gamma knife radiosurgery. Oral presentation, 85th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Nov 26-Dec 3, 1999.

36. Cobery S, Norén G, Friehs G, Chougule P, Zheng Z, Epstein M, Taylor W: Gamma knife radiosurgery for central neurocytomas. Oral presentation, 10th International Meeting of the Leksell Gamma Knife Society, Squaw Valley, California, USA, April 14, 2000.
37. Norén G, Friehs G, Chougule P, Zheng Z: Is twelve Gy enough to control acoustic neuromas? Oral presentation, 10th International Meeting of the Leksell Gamma Knife Society, Squaw Valley, California, USA, April 15, 2000.
38. Zheng Z, Shearer D, Norén G, Chougule P, Friehs G: Comparison of geometric distortion in digital angiographic images with and without correction by Easy Correct. Oral presentation, 10th International Meeting of the Leksell Gamma Knife Society, Squaw Valley, California, USA, April 15, 2000.
39. Norén G, Cobery ST, Chougule P, Zheng Z: Preservation of hearing following gamma knife fractionated radiosurgery for acoustic neuromas. Oral presentation, 12th World Congress of Neurosurgery, Sydney, Australia, September 18, 2001.
40. Norén G, Lindquist C, Rasmussen SA, Greenberg BD, Friehs G, Chougule PB, Zheng Z, Epstein MH: Gamma Knife capsulotomy for obsessive-compulsive disorder [abstract]. *J Neurosurg* 2002; 96(2):414-415.
41. Norén G, Friehs G, Lindquist C, Rasmussen S, Greenberg B, Zheng Z, Chougule P: Gamma capsulotomy for obsessive-compulsive disorder. Presentation at 11th International Meeting of the Leksell Gamma Knife Society, Prague, Czech Republic, May 14, 2002.
42. Bradford C, Morabito B, Shearer DR, Norén G, Chougule P: Off-target patient dose during couch transit for the Leksell Gamma Knife model C. Radiation-induced epilation due to couch transit dose. Presentation at 11th International Meeting of the Leksell Gamma Knife Society, Prague, Czech Republic, May 15, 2002.
43. Norén G, Rasmussen SA, Greenberg BD, Friehs GM, Salloway S, Iftimia I, Bradford CD: Sensitivity of the optic apparatus to radiosurgery. Presentation at 12th International Meeting of the Leksell Gamma Knife Society, Vienna, Austria, May 19, 2004.
44. Norén G, Cobery S, Remis M, Bradford C: Five-session gamma knife treatment of acoustic neuromas. Presentation at the 7th International Stereotactic Radiosurgery Society Congress, Brussels, Belgium, September 12, 2005.
45. Norén G, Goldman M, Rasmussen S, Greenberg BD: Gamma capsulotomy for obsessive-compulsive disorder. XVIIth Congress of the European Society for Stereotactic and Functional Neurosurgery, Montreux, Switzerland, October 7, 2006.

46. Dewan S, Norén G, Magruder H: Re-treatment of vestibular schwannomas with gamma knife radiosurgery. Presentation, fall meeting, New England Neurosurgical Society, Newport, RI, September 28, 2007. Award for best presentation by resident.
47. Duncan J. III, Caralopoulos I., Noren G., Stopa E., Silverberg G., Klinge P., Donahue J., Park M., Miller M. and Johanson C.E. A porcine model of hydrocephalus induced by gamma knife irradiation. Poster 1. 53rd Annual Meeting of the Society for Research on Hydrocephalus and Spina Bifida, Belfast, Ireland, 2009.
48. Norén G, Avendaño P and Jang S. Characterization of patterns of behavior of vestibular schwannomas after Gamma Knife radiosurgery. Oral presentation on May 19, 2010, and electronic poster at the 15th International Meeting of the Leksell Gamma Knife Society, Athens, Greece.

INVITED PRESENTATIONS

1. Norén G, Leksell L: Stereotactic treatment of acoustic tumours. INSERM symposium, 4th meeting of the European Society for Stereotactic and Functional Neurosurgery, Paris, July 13, 1979.
2. Norén G: Stereotactic radiosurgery of acoustic neuromas. Neurofibromatosis: clinical care and research directions, a one day symposium offered by The National Neurofibromatosis Foundation, Boston, Massachusetts, May 18, 1983.
3. Norén G: Stereotactic radiosurgery ("the Gamma Knife") for acoustic tumors, AVM's, and pituitary tumors. Special guest lecture, Dept. of Neurological Surgery, University of Pittsburgh, USA, Jan. 23, 1985.
4. Norén G: Stereotactic PET in the management of brain tumors. Lecture at the Department of Neurosurgery at the University of Oregon Health Sciences Center, Portland, Oregon, Feb. 5, 1985.
5. Norén G: The basis for positron emission tomography (PET) and its use in glioma diagnostics. Course in New Modalities in Diagnosis and Treatment of Gliomas, University of Trondheim, Norway, June 4, 1985.
6. Norén G: Stereotactic radiosurgery in the management of acoustic tumours. Scandinavian workshop in skull base surgery presented by the University of Linköping, Sweden, May 28, 1986.
7. Norén G, Holst H v: Stereotactic biopsy and the PET-scanner. Current topics in clinical neurosciences - international perspectives. Meeting presented by the Karolinska Institute and the Dominican Neurologic Institute, Stockholm, Sweden, Sept. 1, 1986.
8. Norén G: Stereotactic radiation treatment in bilateral acoustic neuroma. Invited speaker and participant in the NIH Neurofibromatosis Consensus Development Conference, Bethesda, Maryland, July 14, 1987.
9. Norén G: Stereotactic radiosurgery in acoustic neurinomas. Invited speaker in the luncheon workshop, "The place and achievements of radiosurgery", 8th European Congress of Neurosurgery, Barcelona, Spain, Sept. 11, 1987.
10. Norén G: Stereotactic radiosurgery in acoustic neuroma. Introductory lecture for the Leksell User Group Meeting, Bath, England, June 4, 1990.
11. Norén G: Stereotactic radiosurgery of acoustic neurinomas. German-Scandinavian Neuro-otological Symposium, Tällberg, Sweden, July 26, 1990.

12. Norén G: Gamma Knife radiosurgery in bilateral acoustic neuromas. Invited speaker at NF2 Symposium arranged by The National Neurofibromatosis Foundation, Boston, MA, April 28, 1991.
13. Norén G: Gamma Knife radiosurgery in acoustic neuromas. Annual meeting of the Canadian Society of Otolaryngology, Edmonton, Alberta, June 24, 1991.
14. Norén G: Gamma Knife radiosurgery in acoustic neurinomas. Lecture at the Department of Neurosurgery, Toronto Western Hospital, Toronto, Ontario, June 25, 1991.
15. Norén G, Greitz D, Hirsch A, Lax I: Gamma Knife radiosurgery in acoustic neurinomas. Invited faculty at Copenhagen Acoustic Neuroma Conference, Copenhagen, Denmark, Aug. 28, 1991.
16. Norén G: Gamma Knife radiosurgery in acoustic neuromas. Lecture as invited speaker for the Los Angeles Society of Otolaryngology, Los Angeles, California, Oct. 28, 1991.
17. Norén G: Acoustic tumors. Introductory lecture, Gamma Knife Surgery Workshop, Copenhagen, Denmark, January 25, 1992.
18. Norén G: Gamma Knife surgery in acoustic neurinomas. Workshop: Radiosurgery of Craniobasal Processes, First International Skull Base Congress, Hannover, Germany, June 18, 1992.
19. Norén G: Gamma Knife - methodology, clinical results. Lecture as invited speaker during The Second Jordanian Neurosciences Conference "Neuroscience Update", Amman, Jordan, October 8, 1992.
20. Norén G: Acoustic Neuromas. Invited lecturer, Gamma Knife Radiosurgery Conference, Newport, Rhode Island, organized by Brown University, Rhode Island, October 24, 1992.
21. Norén G: Acoustic Neurinomas. Lecturer and moderator, Workshop on Gamma Knife Surgery, Garmisch-Partenkirchen, Germany, January 25, 1993.
22. Norén G: Long-term results of Gamma Knife treatment of acoustic neurinomas. 2nd Stereotactic Radiosurgery Meeting, Lille, France, March 26, 1993.
23. Norén G: Gamma Knife radiosurgery of acoustic tumors. Invited speaker, Treatment of acoustic tumors, national meeting sponsored by the University of Bergamo, Italy, April 16, 1994.
24. Norén G: Gamma Knife radiosurgery of acoustic tumors. Invited speaker, Symposium on Gamma Knife Radiosurgery in conjunction with the inauguration of The Shanghai Gamma Knife Hospital, Shanghai, China, May 5, 1994.

25. Norén G: Gamma Knife radiosurgery of intracranial tumors. Keynote lecture, Annual Meeting of the Chinese Neurosurgical Society, 150th Hospital of PLA, Luoyang, China, May 16, 1994.
26. Norén G: Gamma Knife radiosurgery. Invited speaker, 8th Meeting of the Chinese Military Neurosurgical Society, Wuhan, China, May 24, 1994.
27. Norén G: Gamma Knife radiosurgery. Invited speaker, Changsha University Hospital, Changsha, China, May 25, 1994.
28. Norén G, Karlbom A, Brantberg K, Lax I, Mosskin M: Gamma Knife radiosurgery for acoustic neurinomas. Invited speaker, 14th Annual Meeting of the Japanese Congress of Neurological Surgeons, Sendai, Japan, May 28, 1994.
29. Norén G: Gamma Knife radiosurgery: An overview. Invited speaker, Haukeland Hospital, Bergen University, Bergen, Norway, June 2, 1994.
30. Norén G: Gamma Knife radiosurgery for acoustic tumors: Long-term results. Invited speaker, Annual Meeting of the Scandinavian Neurosurgical Society, Copenhagen, Denmark, June 10, 1994.
31. Norén G: Gamma Knife radiosurgery of acoustic tumors. Long-term results. Invited speaker, Neurosurgical Grand Rounds, Dept of Neurosciences, Rhode Island Hospital/Brown University School of Medicine, June 13, 1994.
32. Norén G: Gamma Knife radiosurgery for acoustic tumors. Invited speaker, University of Kansas, Kansas City, September 15, 1994.
33. Norén G: Gamma Knife radiosurgery for acoustic tumors. Invited speaker, Kantonspital, Zürich, Switzerland, September 22, 1994.
34. Norén G: The long term follow-up results following gamma knife radiosurgery of acoustic tumors. Round table: Alternative to surgery in acoustic neuromas management. 2nd International Conference on Acoustic Neuroma Surgery and 2nd European Skull Base Society Congress, Paris, France, April 24, 1995
35. Norén G: Stereotactic gamma knife radiosurgery in the management of skull base tumors. Round table: Skull base radiotherapy. 2nd International Conference on Acoustic Neuroma Surgery and 2nd European Skull Base Society Congress, Paris, France, April 25, 1995
36. Norén G: The long term follow-up results following gamma knife radiosurgery of acoustic tumors. Symposium IV: Benign tumors, 2nd Congress of International Stereotactic Radiosurgery Society, Boston, Massachusetts, June 15, 1995

37. Norén G: The case for lower doses in acoustic tumors. Point <-> Counter-point topics, 7th International Leksell Gamma Knife Society Meeting, The Island of Lana'i, Hawaii, November 13, 1995.
38. Norén G: Gamma knife stereotactic radiosurgery. Lecture, Stereotactic Neurosurgery Hands-On, AANS, New Orleans, Louisiana, November 18, 1995.
39. Norén G: Acoustic tumors. Lecture, Principles and Practice of Gamma Knife Radiosurgery, University of Pittsburgh, PA, February 1, 1996.
40. Norén G: Hearing preservation in acoustic tumor Gamma Knife radiosurgery. Breakfast seminar, The American Association of Neurological Surgeons annual meeting, Minneapolis, Minnesota, April 29, 1996.
41. Norén G: Gamma Knife: When and Why? Lecture as invited speaker, 38th Annual New England Conference of Radiologic Technologists, Danvers, MA, September 27, 1996.
42. Norén G: Gamma knife radiosurgery of benign intracranial tumors. Gamma Knife Symposium for neurologists, Boston, April 19, 1997.
43. Norén G: Permanent (long term) complications for less than 3 cm vestibular schwannomas. Invited speaker, 8th International Meeting of the Leksell Gamma Knife Society, Marseille, France, June 23, 1997.
44. Norén G: Gamma knife radiosurgery for acoustic schwannomas. Invited speaker, 3rd Congress, International Stereotactic Radiosurgery Society, Madrid, Spain, June 27, 1997.
45. Norén G: Gamma knife radiosurgery for acoustic neurinoma. Invited speaker, 11th International Congress of Neurological Surgery, Amsterdam, The Netherlands, July 8, 1997.
46. Norén G: Gamma knife radiosurgery for acoustic tumors. Invited speaker for special lecture, International Symposium of Micro- and Radio-Neurosurgery (Gunma University School of Medicine), Kusatsu, Japan, September 28, 1997.
47. Norén G: Gamma knife radiosurgery for secreting and non-secreting pituitary adenomas. Invited speaker, International Symposium of Micro- and Radio-Neurosurgery (Gunma University School of Medicine), Kusatsu, Japan, September 29, 1997.
48. Norén, G: Acoustic neuroma. Special lecture as invited speaker, The 4th Gamma Knife Treatment Meeting, Tokyo, Japan, July 19, 1998.
49. Norén G, Khan AM, Epstein MH, Zheng Z, Chougule PB: Gamma Knife or Linac radiosurgery for acoustic neuromas? Featured speaker, 9th International Meeting of the Leksell Gamma Knife Society, Hong Kong, November 11, 1998.

50. Norén G, Lindquist C: Persistent disease: To retreat or resect. Breakfast seminar, 4th International Stereotactic Radiosurgery Society Congress, Sydney, Australia, February 26, 1999.
51. Briggs R, Norén G, Sheehy J: Schwannomas/neuromas. Interactive session (adjudicator Vonau M), 4th International Stereotactic Radiosurgery Society Congress, Sydney, Australia, February 26, 1999.
52. Norén G: Radiosurgery in acoustic neurinoma and other CPA tumors. Instruction Course. 3rd International Conference on Acoustic Neurinoma and Other CPA Tumors, Rome, Italy, June 13, 1999.
53. Norén G: Radiosurgery (Gamma Knife) for acoustic neurinoma and other CPA tumors. Indications, results, risks and complications. Panel chairman, 3rd International Conference on Acoustic Neurinoma and Other CPA Tumors, Rome, Italy, June 14, 1999.
54. Norén G: Radiosurgery for acoustic neuromas: current status. Oral presentation, invited speaker, 10th International Meeting of the Leksell Gamma Knife Society, Squaw Valley, California, USA, April 16, 2000.
55. Norén G: Treatment of acoustic tumors. Invited speaker, 2001 Winter Meeting of the European Association of Neurosurgical Societies, Vienna, Austria, February 16, 2001.
56. Norén G: Gamma knife surgery: Hearing preservation and treatment of large tumours. Invited speaker, Acoustic Neuroma Symposium, Royal College of Surgeons, London, UK, June 30, 2001.
57. Norén G: Results of Radiosurgery. Invited panelist, luncheon seminar “Optimizing outcome in acoustic tumor surgery: Practical and technical considerations”, 51st Annual Meeting of Congress of Neurological Surgeons, San Diego, October 1, 2001.
58. Norén G: Radiosurgery vs. microsurgery: facts and opinions from the experts. NF2 track. Invited speaker and panelist, 13th Annual Conference of the Association of Late-Deafened Adults (ALDAcon 2001), Newport, Rhode Island, November 2, 2001.
59. Norén G: Options for the future: NF2 track. Invited speaker and panelist, 13th Annual Conference of the Association of Late-Deafened Adults (ALDAcon 2001), Newport, Rhode Island, November 2, 2001.
60. Norén G: Gamma Knife radiosurgery: principles and applications. Presentation as invited speaker jointly with Dr. Prakash Chougule for radiation oncologists, Saint Anne’s Hospital, Fall River, MA, February 27, 2002.

61. Norén G, Friehs G, Lindquist C, Rasmussen S, Greenberg B, Zheng Z, Chougule P: Gamma capsulotomy for obsessive-compulsive disorder. Invited presentation at plenary session, 70th Annual Meeting of the American Association of Neurological Surgeons, Chicago, April 8, 2002.
62. Norén G: Gamma Knife radiosurgery for acoustic neuromas: Past & present. Invited presentation at 11th International Meeting of the Leksell Gamma Knife Society, Prague, Czech Republic May 13, 2002.
63. Norén G: Gamma Knife capsulotomy for OCD. Invited speaker, breakfast seminar #218, 71st Annual Meeting of American Association of Neurological Surgeons, San Diego, CA, April 29, 2003.
64. Norén G: Gamma capsulotomy for obsessive-compulsive disorder. Invited keynote speaker, 6th International Stereotactic Radiosurgery Society Congress, Kyoto, Japan, June 23, 2003.
65. Norén G: Reality of acoustic neurinoma radiosurgery. Invited speaker, breakfast seminar, 6th International Stereotactic Radiosurgery Society Congress, Kyoto, Japan, June 25, 2003.
66. Norén G: Functional diseases: Is radiosurgery effective and safe? Invited speaker, breakfast seminar, 6th International Stereotactic Radiosurgery Society Congress, Kyoto, Japan, June 26, 2003.
67. Norén G: Gamma Knife treatment of AVMs. Faculty, Workshop on Interventional Neuroradiology/Neurosurgery, McGill University/Université de Sherbrooke, Montreal, Quebec, Canada, October 10, 2003.
68. Norén G: Gamma capsulotomy in the treatment of obsessive-compulsive disorder. Invited speaker, conference on “Tratamento baseado em neurocircuitos no transtorno obsessivo-compulsivo refratário”, Department of Psychiatry, Faculty of Medicine, University of São Paulo, Brazil, December 4, 2003.
69. Norén G: Gamma Knife radiosurgery for OCD. Invited speaker, symposium, Radiosurgery for Functional Disorders, Annual Meeting of American Association of Neurological Surgeons, Orlando, FL, May 4, 2004
70. Norén G: Stereotactic radiotherapy in benign tumors using the Gamma Knife: radiobiological rational and clinical evidence? Invited panelist, point-counterpoint discussion, 12th International Meeting of the Leksell Gamma Knife Society, Vienna, Austria, May 17, 2004.
71. Norén G: Impact of dose rate on clinical outcomes in Gamma Knife surgery. Invited speaker, breakfast seminar, 12th International Meeting of the Leksell Gamma Knife Society, Vienna, Austria, May 18, 2004.

72. Norén G: Historic perspective of radiosurgery and the treatment of acoustic neuromas. Invited speaker, the 5th Annual IRSA Nurse Meeting, New Orleans, LA, July 19, 2004.
73. Norén G: Acoustic Neuroma (Vestibular Schwannoma): pathogenesis, diagnosis, treatment. Invited speaker, the 5th Annual IRSA Nurse Meeting, New Orleans, LA, July 19, 2004.
74. Norén, G: History of Gamma Knife radiosurgery and the treatment of OCD, vestibular schwannoma and pituitary adenoma. Invited lecturer, III Curso Internacional de Avances en Radiocirugía Gamma, Hospital Médica Sur, Mexico City, Dec 2-3, 2004.
75. Norén G: Actualización de tratamiento neuroquirúrgico con Radiocirugía Gamma Knife. Invited lecturer, Hospital Universitario Insular de Gran Canaria, Spain, January 4, 2005.
76. Norén, G: History of the Gamma Knife and the treatment of OCD, vestibular schwannomas, pituitary adenomas and pineal region tumors. Invited lecturer, Curso Internacional Radiocirugía con Gamma Knife, San Javier Hospital, Guadalajara, Jalisco, Mexico May 5-7, 2005.
77. Norén G: Gammaknivsbehandling av vestibularisschwannom (Gamma Knife treatment of vestibular schwannomas). Invited lecturer, scientific meeting celebrating the 75th anniversary of neurosurgery in Sweden, Karolinska University Hospital, Stockholm, Sweden, September 9, 2005.
78. Norén G: Strategies in the management with the Gamma Knife of dural arteriovenous fistulas. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 26, 2006.
79. Norén G: Strategies in the management with the Gamma Knife of multiple cavernous angiomas. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 26, 2006.
80. Norén G: Strategies in the management with the Gamma Knife to preserve hearing in vestibular schwannomas. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 28, 2006.
81. Norén G: Strategies in the management of neurofibromatosis and bilateral vestibular schwannomas. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 28, 2006.
82. Norén G: Treatment with the Gamma Knife of neurocytomas of the central nervous system. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 28, 2006.

83. Norén G: Strategies in the management of non-secretory pituitary adenomas with the Gamma Knife. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 28, 2006.
84. Norén G: Strategies in the management of craniopharyngiomas with the Gamma Knife. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 28, 2006.
85. Norén G: Strategies in the management with the Gamma Knife of mesial temporal lobe epilepsy. Invited lecturer, First International Congress on Minimal Invasion in Neurosurgery, University of Guadalajara, Jalisco, Mexico, April 28, 2006.
86. Norén G: Stereotactic radiotherapy for vestibular schwannomas. Invited keynote lecturer, 13th International Meeting of the Leksell Gamma Knife Society, Seoul, Republic of South Korea, May 22, 2006.
87. Norén G: Gamma Knife surgery in functional disorders: OCD. Invited special symposium lecturer, 13th International Meeting of the Leksell Gamma Knife Society, Seoul, Republic of South Korea, May 24, 2006.
88. Norén G: Definición e instrumentación de radiocirugía. Radiocirugía de Gamma Knife, Curso Internacional, Hospital San Javier, Guadalajara, Jalisco, Mexico, May 17, 2007.
89. Norén G: Meningiomas y edema. ¿Gamma Knife o cirugía? Radiocirugía de Gamma Knife, Curso Internacional, Hospital San Javier, Guadalajara, Jalisco, Mexico, May 17, 2007.
90. Norén G: Gamma Knife en neurinomas vestibulares. Radiocirugía de Gamma Knife, Curso Internacional, Hospital San Javier, Guadalajara, Jalisco, Mexico, May 18, 2007.
91. Norén G: Gamma Knife y enfermedad obsesivo-compulsiva. Radiocirugía de Gamma Knife, Curso Internacional, Hospital San Javier, Guadalajara, Jalisco, Mexico, May 18, 2007.
92. Norén G: Futuro de la radiocirugía. Radiocirugía de Gamma Knife, Curso Internacional, Hospital San Javier, Guadalajara, Jalisco, Mexico, May 19, 2007.
93. Norén G: Techniques for hearing preservation: What really matters? Presentation in general session as invited speaker at the 14th International Meeting of the Leksell Gamma Knife Society, Quebec City, Canada, May 19, 2008.
94. Norén G: The history and applications of the Gamma Knife technique. Lecture for the Northeastern Chapter of Oncology Nurses Association, Warwick, Rhode Island, April 8, 2009.

95. Norén G: Radiocirugía con gamma knife en patología tumoral infantil hasta los 14 años de edad. Lecture at the XXVI Reunión de la Sociedad Española y Reunión Conjunta con la Sociedad Francesa de Neurocirugía Pediátrica, Las Palmas de Gran Canaria, Spain, February 19, 2010

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UNIVERSITY TEACHING ROLES

Karolinska Institute, Stockholm, Sweden

Neurosurgery for physiotherapy classes, two 2-hour lectures per class, two classes per year, 30-40 students per class, mid 1980s-1994

Postgraduate courses for physicians (sponsored by Karolinska Institute):

- a. Acoustic neuromas and other CPA tumors affecting hearing and balance, organized by ENT Department, Karolinska Hospital Solna, every other year, 20-30 students
- b. CNS infections, organized by Department of Neurology, Karolinska Hospital Huddinge, every other year, 20-30 students

HOSPITAL TEACHING ROLES

Karolinska Hospital, Stockholm, Sweden

International courses in Gamma Knife radiosurgery, organized by Department of Neurosurgery, Karolinska Hospital, for Gamma Knife users, 10-15 participants per course, mid 1980s-1994.

Rhode Island Hospital

Hands-on training in Gamma Knife radiosurgery, a three-month rotation for every neurosurgical resident during PGY 3.

Neurosurgical Case Conference every Monday 9:00-10:00.

Brain Tumor Board Conference every Monday 12:00-01:00

Lecture series for neurosurgical residents on Mondays after the Grand Rounds twice annually.